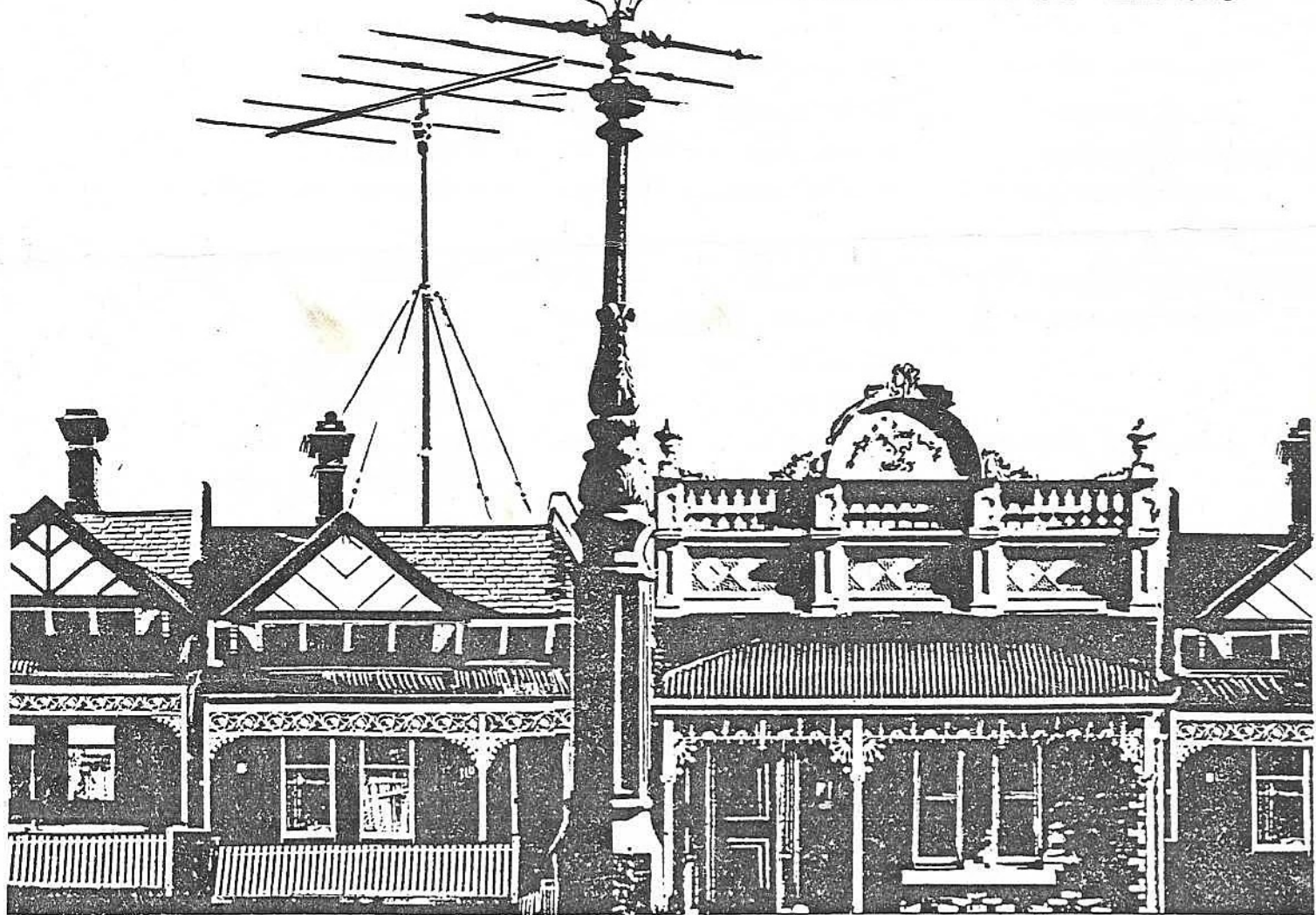


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B·A·R·G NEWS

November 1986



© **Monthly Newsletter of the
Ballarat Amateur Radio Group**

BALLARAT AMATEUR RADIO GROUP INCORPORATED - OFFICERS 1986-87

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Executive Committee

			<u>Home</u>	<u>Business</u>
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Vice President	Lou Laquinto	VK3 DFI	49 2200	
Secretary	Jim Wright	VK3 CFB	32 7563	
Assistant Secretary	Dick Forrester	VK3 VU	35 7663	39 1001
Treasurer	Harry Hekkema	VK3 KGL	35 7563	39 1001
Publicity Officer	John Hazledine	VK3 CFH	39 1971	39 1035
Education Officer	Ian McDonald	VK3 AXH	41 3717	31 1317
Net Co-ordinator	Fred Quick	VK3 KQF	32 3216	32 6455
Technical Officer	Ian Robinson	VK3 BTX	32 4139	
Member's Representative	Neil Davidson	VK3 KQQ	35 9612	

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Officers and Committees

Newsletter Editor	Ron Watkins	VK3 XOA	35 6017	32 1447
Q.S.L. Manager	Cliff Bilston	VK3 PAF		
Awards Manager	Maurie Batt	VK3 XEX	42 2245	
Property Officer	Dick Antoziewicz	VK3 AEX	32 3273	31 1818
Hamfest Convenor 1986	Murray Felstead	VK3 AAI	42 0447	31 5000
W.I.A. Liaison Officer	Geoff Smith	VK3 ADB	33 2112	
WICEN Committee	Dick Antoziewicz	VK3 AEX	32 3273	31 1818
	Dick Forrester	VK3 VU	35 7663	39 1001
	Geoff Smith	VK3 ADB	33 2112	
Newsletter Committee	Ron Watkins	VK3 XOA	35 6017	32 1447
	Dick Forrester	VK3 VU	35 7663	39 1001
	John Brown	VK3 KJB	39 1014	
	Henry Moritz	VK3 DXC	35 5130	
	Maggi Laquinto	VK3 CFI	49 2200	
Technical Committee	Ian Robinson	VK3 BTX	32 4139	
	Phil Seddon	VK3 AQM	31 5220	31 3166
	Maurie Batt	VK3 XEX	42 2245	
	Dick Antoziewicz	VK3 AEX	32 3273	31 1818

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B.A.R.G. meets on the LAST FRIDAY of every month at the
Ballarat Education Centre, Hopetoun Street, Ballarat at 7.30 pm.

Committee meetings are held at the Education Centre on the
Wednesday two weeks prior to the Club meeting, at 7.30 pm.
Members of the Executive are expected to attend and any Club Member
with business for discussion is welcome.

All correspondence should be addressed to -
The Secretary, B.A.R.G. Inc., PO BOX 216E, BALLARAT EAST. 3350.

Applications for Awards to Maurie Batt, RSD ROKEWOOD JUNCTION. 3351.

MEETING OPENED at 7.55pm. with 30 members present and President Bob. BNC in the chair.

APOLOGIES. VK3 ADB, PGD, LJ, NIZ, SE, KGL, DOK, CAZ, KIT, DFI.

MINUTES of previous meeting as printed in News Letter confirmed. CCI/NFZ.

CORRESPONDENCE IN Propagator and A.R. No outward correspondence.

TREASURERS REPORT General a/c \$605.64 VS&L a/c \$1712.10.
Accounts ammounting to \$270 passed for payment. ZL/PUW.

QSL MANAGER reported that no cards were received in previous month.

AWARDS MANAGER Maurie reported application for 1only Gold Rush Award, and presented cheque for \$50 from DX Widows Awards.

EDUCATION OFFICER Ian brought along a simple wavemeter as a construction project for Club members.

PUBLICITY President Bob gave a talk on Amateur Radio on F.M. Station 3BBB and a news item appeared in the Ballarat News.

NEWS LETTER A committee consisting of John KQH, Gordon PUW and Clarrie DMK was formed to look into a different format for the Newsletter as the costs of producing the present one are getting to high.

LADIES AUXILLIARY. The Ladies have requested a goal to work for in the future months. Suggestions would be welcomed.

HAMVENTION. Kevin WN reported that the Saturday night dinner had to be cancelled owing to lack of support and a get together at the Bluebell Hotel would take its place.
It was moved by Greig DIE seconded Dick AEX that an admission charge of \$2.00 be made to visitors not requiring lunch. Carried.

GENERAL BUSINESS. Name Badges are now available at \$3.00 each.

IAN AXH then gave a demonstration of the home brew wavemeter and the meeting closed at 9.55pm.

NEXT CLUB MEETING Friday 28th November. No meeting in December.

NEXT COMMITTEE MEETING Wednesday 14th January.



Venture Video

614 SKIPTON ST., SEBASTOPOL

Ph. (053) 35 6933

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This is George, 'THE VOICE', DKJ.

Georges' association with Radio and electricity dates back a long way, and a visit to his shack will confirm this.

When I suggested that he must have been in the game all of his life he said "Well a good part of it. I got my license back in 1952". I figured he must have started earlier, and when he informed me that his Bro. in law was a ham back in 1925, the picture began developing. In those days George was living in Rainbow, and bro. in law at Lake Hindmarsh. George had power connected to his home, (DC that is), so he built an AC convertor from an old Dodge generator, drove it with a DC motor & supplied AC for the rig. They were so successful working the 'Yanks' that a celebration followed by getting stuck into chocolate and 'plonk' !!!! The way George relates it, that was a sickening experience ?. Incidentally - he had a permit to act as second operator.

Space does not allow extension of the story, but what does emerge is Georges' knowledge of Diesel machinery and electricity, and then some more. His original trade was an Electrician In Charge at The Rainbow Electric Light Co. and there is history in that story, believe me!

Later on George served 3 years in the Army as an Instrument Maker, and after the war; when the S.E.C. wired the country areas, he and his brother started their own business in Rainbow, one facet of which was building automatic generator sets, along with constructing silos and doing their own oxy welding.

The old story of drought in the west brings about a financial recession and to avert going into debt George is forced to close down. The next we hear of him is down in South Melb. as a refrigeration mechanic where he remained until ill health brought about his early retirement and then came the move to Ballarat.

The motivation for George to take up Amateur Radio is obvious, and plunge actually took

place whilst they were in Melbourne, in 1952 and in his own words "I've never regretted it, in fact now that I'm not working I don't know what I'd do with out it!". "Where does your main interest in Ham Radio lay George ?". "Oh! UHF, both 'home brewing' and operating, mainly because its smaller and requires greater skill than HF". "Do you really get as much satisfaction from contacts on UHF as you do on HF ?". "Oh! at one time I used to get a real thrill out of HF, you know, back in the AM days. I was playing around with T/V then too - just when it was coming on air and you know this cost me a win in the Ross Hull contest. There was this guy Mick in Nth. Adelaide who was in the running and was also interested in T/V, and this particular morning I contacted him on the bands to tell him there was some nice juicy T/V sigs coming in from ZL and he chuckled and said thanks and I went back to my T/V for a couple of hours, and by that time the bands were closed so I missed out on a few contacts while Mick was getting them, and he pipped me for 1st place. I was runner up twice you know".

On the VHF scene George, along with VK4ZAX, once held the long distance record for two metres, from the Buderim Mounts. to Rainbow, and thats the brief on a man of many talents, George DKJ.

Thanks George for your story!.

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PRESIDENT'S COMMENT

I hope that you enjoyed the hamvention which our club conducted over the first weekend of November. It has been described as a great success by many. Commencing with the informal counter tea at the Blue Bell Hotel to the full programme of events and trade display on the Sunday. It was a great group effort and I believe we can be justly proud of the splendid work put in by so many of our members both before and during the event. Thanks also to the ladies who worked so hard to satisfy our inner needs. The Ballarat hamvention has become the ham event of the year. Thank you one and all for a great job.

At our last meeting considerable discussion took place on the future and direction of our club magazine. The committee appointed to investigate current problems of costs and format (Gordon VK3PUW, John VK3KJB and Clarry VK3DMK) should conclude their investigations and report back to the next meeting. If you can assist them with comments etc, please do so. We would wish to continue this service to members at the same high standard and availability.

Next meeting will be our Christmas meeting and John VK3CFN fresh from his overseas trip, will entertain us with some light hearted experiences as a young G.P. in the wilds of North East Victoria. We hope this will be a good social meeting to finish off what has been another successful year for B.A.R.G.

Ted VK3NIZ has had some trouble with his "pump oscillator" and is now convalescing at home. If you have a minute I know Ted would love to see you. All the best Ted from us all at B.A.R.G.

A number of club projects are now off the ground, the new Channel Six repeater, U.H.F. repeater, V.H.F. beacon and perhaps a digi repeater. In order for us to continue to be an innovative club your input is our greatest asset. If you would like to help with any of these projects either large or small, or to just break the ice, then lets know, as many hands make light work.

Finally, on behalf of our group, I would like to wish our amateurs, SWL's and friends in general and our members in particular a very happy and safe Christmas.

73's for now

Bob VK3BNC

LADIES COMMITTEE

WE WISH TO THANK EVERYONE FOR THEIR HELP AND ATTENDENCE ON THE CONVENTION WEEKEND.

SOCIAL EVENT

LADIES COMMITTEE CHRISTMAS EVENING OUT IS TO BE HELD AT THE WINERY, AT 7.30p.m ON THE 27th., NOVEMBER. CONTACT GWEN DAVIDSON 'ph359612. WE WISH YOU ALL A MERRY CHRISTMAS AND A HAPPY NEW YEAR.

J.F. Secretary.

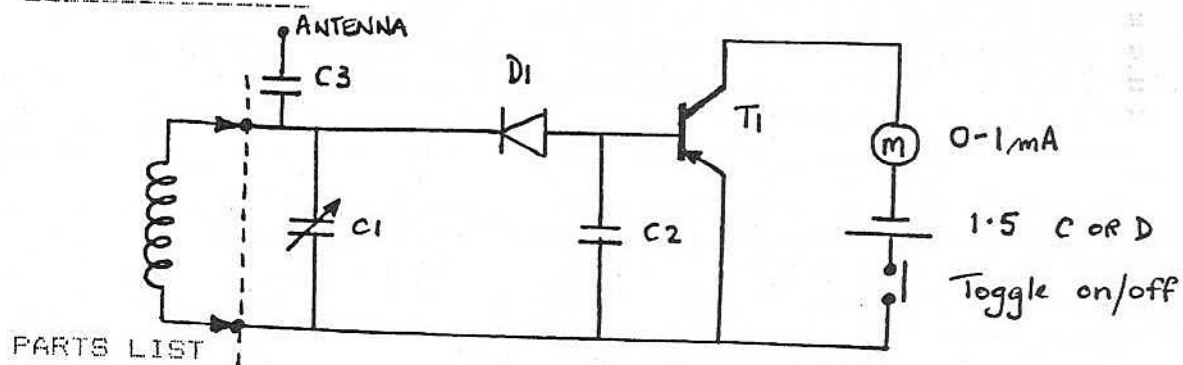
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BUILD A WAVEMETER -- CLUB PROJECT

Discussed at the last club meeting were details of how to make a wavemeter to cover the frequency range 1.5 to 150 MHz. As seen from the circuit there are few components to be purchased by builders.

CIRCUIT DIAGRAM

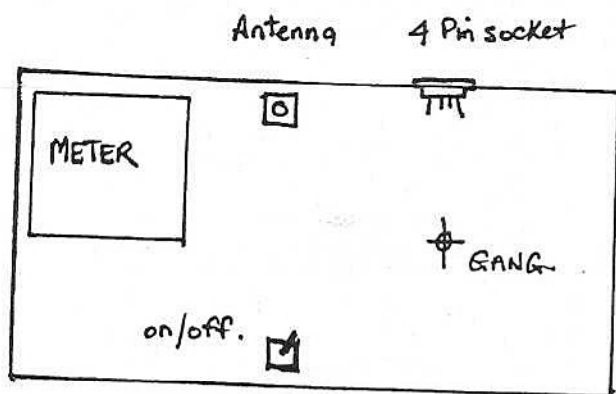


PARTS LIST

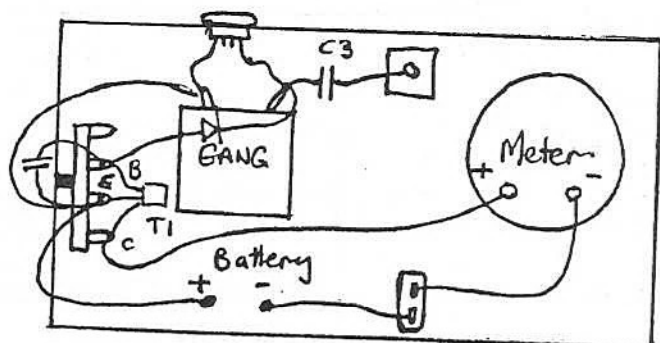
- C1. Small single or dual gang capacitor as used in a transistor radio.
- C2. 1000 pf
- C3. 47pf
- D1. OA90 or similar germanium diode.
- T1. 2N217 or similar germanium transistor to act as a D.C. amp
- 0-1mA meter
- toggle switch if required
- banana plug and socket for short antenna if required
- 8 of 4 pin speaker plugs
- 1 of matching 4 pin matching speaker socket
- 1 box to house the components
- A quantity of 28-30 gauge enamelled wire
- A quantity of telephone single strand plastic covered wire

CONSTRUCTION

Mount the components as shown.



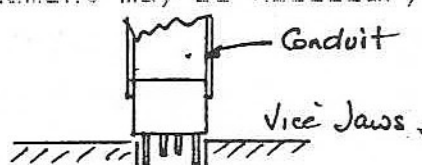
FRONT

REAR.
4 way tag
strip for
components..

Perhaps the most difficult task is the number of coils and their final dimensions. This will be determined by the type and value of tuning gang being used. Therefore the dimensions given should be used as a guide only.

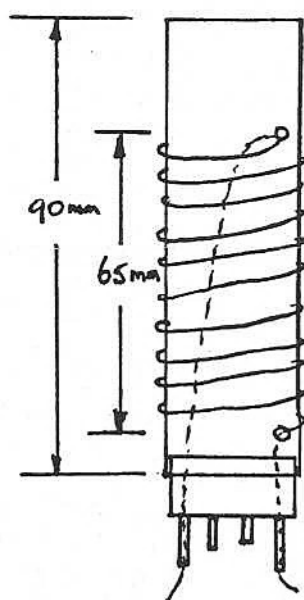
The construction of the coil formers is as follows. You will require about 18" (450mm) of 5/8" (20mm) electricians conduit.

Examination of the speaker plug reveals a lip which is used to secure a plastic boot. This should be carefully removed with the aid of sidecutters. It may be necessary to clear away any jagged pieces left with a file. Next, cut a 90mm length of conduit, clean up edges and force onto the plug. One method of doing this is to open the jaws of a vice wide enough to allow the pins to drop through but provide a shoulder for the rest of the plug. Lightly tap the top of the conduit to drive on. In some circumstances a plastic fixing cement may be necessary.



This former will be for the lowest frequency coil. Next, drill two small holes as shown about 65mm apart. Feed the wire through the bottom hole and then through one of the plug pin holes. As the coil former is long this may be a bit tricky. Wind on the fine wire to top hole and feed through and secure as shown below.

COIL DETAIL No 1.

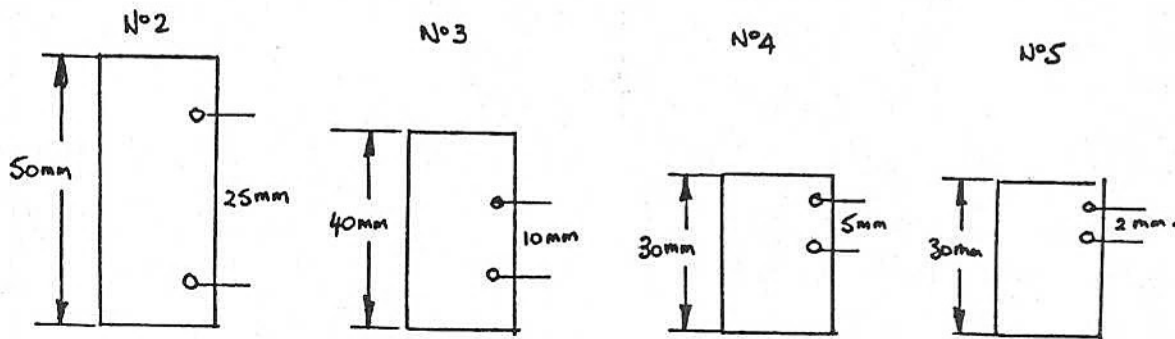


feed wire through as shown.
Wire is close wound.

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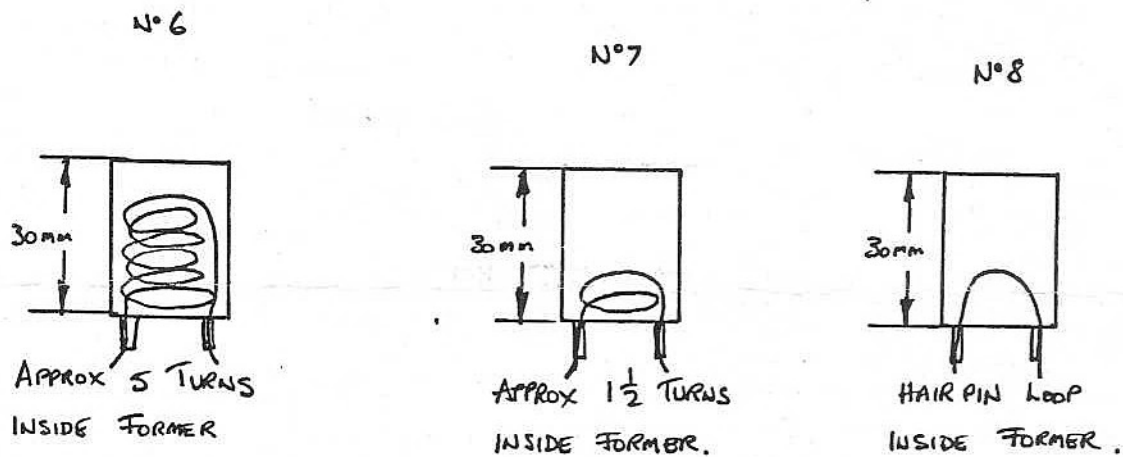
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COIL DETAIL Nos 2-5



USE: 28-30 gauge wire close wound.

COIL DETAIL Nos 6-8



USE: SINGLE CONDUCTOR TELEPHONE PLASTIC COVERED.

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(9)

CALIBRATION

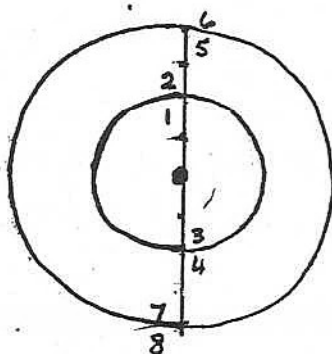
You will require a signal generator or g.d.o. to calibrate the unit. If you dont have one yell !!

1. Plug in low freq coil, and set tuning gang for maximum capacitance.
2. Use the g.d.o. or sig gen to determine the lowest frequency.
3. Now tune the gang to its high capacity end and again use the g.d.o. or sig gen to determine the upper frequency. If you are lucky then the range should be around 1.5 to 3.0 Mhz. It may be necessary to make some minor changes to the number of turns.
4. Next plug in coil No 2 and repeat steps 1-3 ensuring that the lowest frequency of coil No 2 is equal to or just below the maximum of No 1. That is if coil No 1 has an upper limit of 3.0 Mhz then the lower limit of No 2 should be 2.9 Mhz to ensure an overlap.

When all coils have been calibrated lacquer those using the fine wire to hold them in place.

DIAL

When mounting your tuning gang in the box ensure you have enough room to clearly show the calibrations. One arrangement is shown below.

APPROX FREQ'S FOR EACH RANGE

1. 1.5 - 2.8
2. 2.6 - 5.0
3. 4.9 - 9.5
4. 9.5 - 18.0
5. 18.5 - 36.0
6. 35.0 - 62.0
7. 60.0 - 95.0
8. 80.0 - 150.0

CONCLUSION

I hope that sufficient details are included for those intending to build this project. Should you have any problems please contact me at the club or by phone.

GOOD - LUCK VK3 - AXH

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